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Amendments to the Claims

1. (Currently Amended) A method for etching a metal layer having an oxide-based antireflective coating (ARC) layer thereon comprising the steps of:

dry cleaning the ARC-layer-performing a first dry cleaning process in an etching chamber with an oxide-based gas; and

etching at least-part-of-the-metal-layer performing a second dry cleaning process in the chamber with a gas mixture comprising Cl₂ and CHF₃; then

etching the metal layer.

- 2. (Previously Presented) The method of claim 1, wherein a flow rate of the Cl₂ ranges from about 100 sccm to about 200 sccm.
- 3. (Previously Presented) The method of claim 1, wherein a flow rate of the CHF₃ ranges from about 5 secm to about 30 secm.
- 4. (Currently Amended) The method of claim 1, wherein a pressure of each of the dry cleaning and etching-steps processes ranges from about 8 mTorr to about 50 mTorr.
- 5. (Currently Amended) The method of claim 1, wherein a source power of each of the dry cleaning and etching steps processes ranges from about 500 W to about 1200 W.
- 6. (Currently Amended) The method of claim 1, wherein a bias power of each of the dry cleaning and-etohing-steps processes ranges from about 0 W to about 10 W.
- 7. (Currently Amended) The method of claim 1, wherein the method-is dry cleaning processes are performed for about 5 seconds to about 30 seconds.

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- 8. (Previously Presented) The method of claim 1, wherein the oxide-based gas comprises oxygen.
- 9. (Currently Amended) The method of claim 1, wherein the dry cleaning and etching stops processes are performed sequentially in a single etching chamber.
- 10. (Currently Amended) The method of claim 1, wherein the metal layer and ARC layer are on a wafer having a center area and an edge area, and the etohing-step-decreases-dry cleaning processes decrease a microloading effect in the edge area.
- 11. (Currently Amended) The method of claim 4410, wherein the metal layer is ctched at a rate that is substantially the same in the center area and the edge area.
- 12. (Currently Amended) The method of claim 1, wherein the etohing-step-(i)-is performed-in-a-chamber-and-(ii)-further second dry cleaning process eliminates polymers deposited in the chamber.
- 13. (Currently Amended) The method of claim 1, wherein the etching-step-further second dry cleaning process eliminates aluminum- and silicon-containing byproducts.
- 14. (Previously Presented) The method of claim 1, wherein the metal layer comprises an aluminum layer.
- 15. (Previously Presented) The method of claim 14, wherein the metal layer further comprises a titanium nitride layer under the aluminum layer.
- 16. (Previously Presented) The method of claim 1, wherein the ARC layer comprises a silicon oxide.

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